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Graduate School

1946-47



26th Year

Schedule of Classes

Fall Semester

REGISTRATION—September 9 to 21

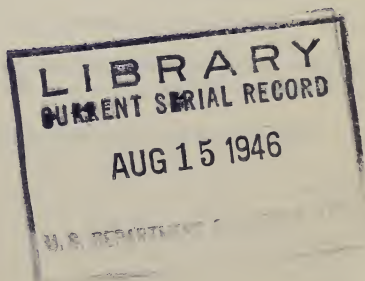
HOURS: 9:00 A.M. to 6:20 P.M.

Monday through Friday

SPECIAL HOURS: OPEN 9:00 A.M. to 1:00 P.M.

Saturday September 14 and 21

CLASSES BEGIN WEEK OF SEPTEMBER 23



Time Schedule and Supplement

to 1946-47 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the **1946-47 Bulletin**, a copy of which may be obtained by writing (use form on bottom of page) or by calling in person. **Please do not telephone.**

Counseling on courses and programs of study is available at all times from members of the School staff who are glad to assist students in planning their work.

Registration: September 9 to 21 (Room 1031, South Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after October 4, except with special permission of instructor and Registrar. A late registration fee of \$1.00 per course will also be charged after October 4. Registration closes in a course when the maximum for that class is reached.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 4:30 to 6:20 p.m., September 16 through October 11 (Saturdays excluded).

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., October 4. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be posted on the 4th and 7th wing bulletin boards in the South Agriculture Building.

Classes begin during week of September 23.

Graduate School, Department of Agriculture
Washington 25, D.C.

Please send me your 1946-47 BULLETIN.

Name

Street

City Zone
No.....

Explanation: Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, and fee. Complete course descriptions may be found in the 1946-47 BULLETIN under the departments as here listed.

BIOLOGICAL SCIENCES

- 700. **Progress in the field of Antibiotics¹** (Irving, Herrick and Specialists) Tu 7-9 \$18
- 603. **Advances in Plant Breeding¹** (Stevenson and Specialists) Tu 6-8 \$18
- 605. **Advances in Insecticides and Fungicides** (Goldsworthy, Bishopp and Specialists) W 6-8 \$18
- 608. **Recent Advances in Animal and Human Nutrition** (Bird, Callison, Earle, Moore and Specialists) Tu 6-8 \$18
- 209. **Systematic Botany** (Blake) M 6-8 \$16
- 512. **Medical and Veterinary Entomology** (Bishopp) M 6-8 \$18
- 310. **Background and Development of Biological Sciences** (Ewan) Tu 6-8 \$16

LANGUAGES AND LITERATURE

- 222^a. **Composition and Rhetoric** (Miller) Tu 6-9 \$24
- 223. **Descriptive English Grammar** (Ward) M 6-8 \$16
- 51. **English for Foreign Students** (Williams) M 6-8 \$16
- 224. **Creative Writing** (Holt) Tu 6-8 \$16
- 225. **Editing** (Merrill and Specialists) M-W 6-7:30 \$24
- 226^a. **Writing for Official Purposes** (McClarren) Th 6:30-8:30 \$16
- 237. **Government Printing Procedure** (Anderson) F 7-8 \$8
- 228. **Fundamentals of Speech** (Provensen) W 6-8 \$16
- 232. **Voice and Remedial Speech** (Emery) Tu 6-8 \$16 and \$1 laboratory fee
- 350. **Effective Meetings** (Ensminger, Boatman) M 6:30-8:30 \$16
- 43. **Personal Development** (Provensen) Tu 6-8 \$16
- 327. **Current Books** (Roberts) Th 6-7 \$8
- 233^a. **Elementary Arabic** (Egleston) F 6-8 \$16
- 238^a. **Elementary Chinese** (Tsiang) Tu-Th 6-8 \$32
- 253^a. **Elementary French** (Humphrey) M-Th 6-7:30 \$24
- 254^a. **Intermediate French** (Humphrey) Tu-Fri 6-7:30 \$24
- 255^a. **Conversational French** (Longi) W 6-9 \$24
- 259^a. **Elementary German** (Lederer) Th 6-9 \$24
- 260^a. **Intermediate German** (Ponti) Th 6-9 \$24
- 261^a. **Conversational German** (Bauer) M 6-9 \$24
- 270^a. **Elementary Italian** (Rossetti) W 6-9 \$24
- 271^a. **Intermediate Italian** (Rossetti) Th 6-9 \$24
- 275^a. **Elementary Japanese** (Yoshioka) Tu-Th 6-7:30 \$24
- 290^a. **Elementary Portuguese** (D'Eca) Tu-Th 6-7:30 \$24
- 295^a. **Elementary Russian** \$24
 - Section I (Schuler) M 6-9
 - Section II (Tarakus) W 6-9
- 295^b. **Elementary Russian** (Saharov) M 6-9 \$24
- 296^a. **Intermediate Russian** (Von Bretzel) Tu 6-9 \$24
- 299^a. **Advanced Russian** (Saharov) W 6-9 \$24
- 300^a. **Elementary Spanish** \$24
 - Section I (Batista) W 6-9
 - Section II (Johnston) Th 6-9
- 300^b. **Elementary Spanish** (Parsons) W 6-9 \$24
- 301^a. **Intermediate Spanish** (Brown) M 6-9 \$24
- 302^a. **Spanish Conversation and Literature** (Mr. Supervia) Th 6-8 \$16

¹ Given at the Agricultural Research Center, Beltsville.

- 574^a. Advanced Spanish Conversation (Mrs. Supervia)
Th 6-8 \$18
304. Commercial Spanish (Lever) W 6-9 \$24

MATHEMATICS AND STATISTICS

MATHEMATICS

1. Review of Freshman Mathematics (Schell) Th 6-9
\$24
102. Algebra (Graves) M 6:30-8:30 \$16
206. Calculus (Finan) W-F 6-7:30 \$24
700. Vector Analysis (Wundheiler) W 6-8 \$18
709. Theory of Infinite Processes (Winston) Th 6:30-8:30
\$18
715. Applications in Engineering Mathematics (Cook)
Th 6:30-8:30 \$18
716. Introduction to Higher Geometry (Goldberg) Tu
6-8 \$18
751. Theory of Measure (Daly) M 7-9 \$18

STATISTICS

123. Survey of Statistics (Simmons) Tu 6:30-9:30 \$24
110. Graphic Methods of Presenting Statistics (Hainsworth, Guidry) M 6-8 \$16
126. Introductory Statistics (Purves) W 6:15-8:15 \$16
- 127^a. Elementary Statistical Analysis—First Half (Weiss)
Th 6-8 \$16
- 127^b. Elementary Statistical Analysis—Second Half
(Steinberg) M 6-8 \$16
516. Intermediate Statistics (Tepping) Tu 6-8 \$18
318. Machine Tabulation (Kaufman) W 6:30-8:30 \$12
319. Advanced Study of Tabulating Equipment (Kaufman) F 6:30-8:30 \$12
520. Statistics of the Federal Government (Ullman) W
6:30-8:30 \$18
723. Design and Analysis of Complex Experiments
(Brandt, Pope) M-W 6-7 \$18
726. Interpretation of Statistical Calculations (Sturges)
M 6-8 \$18
732. Sampling in Social and Economic Surveys (Nisselson) Tu 6-9 \$27
735. Theory of Sample Surveys (Hansen, Hurwitz) W
7:30-9:30 \$18
738. Introduction to Sampling and Statistical Inference¹ (Deming) Th 7-9 \$18
739. Multivariate Analysis (Girshick) Tu 6:30-9:30 \$27
753. Modern Developments in Statistical Economics
(Girshick)² Th 8-10 a.m. \$18

OFFICE TECHNIQUES AND OPERATIONS

108. Administrative Procedure (Hickey) W 6-8 \$16
208. Advanced Administrative Procedure (Thorson)
Th 6-8 \$16
116. Federal Budgetary Procedure (Hanna) M 6:30-8:30
\$16
122. Federal Payroll Procedure (Krueger, Marshall) Th
6-8 \$16
112. Federal Accounting Procedure (Tierney) Th 6-9
\$18
110. Federal Auditing Procedure (Cruikshank) M 6-8
\$16
- 210^a. Advanced Federal Auditing Procedure—First Half
(Cooper) Tu 6:30-8:30 \$16
413. Office Management (Braum) M 6-8 \$16
114. Federal Personnel Procedure (Mohagen) M 6-8 \$16
214. Advanced Federal Personnel Procedure (Mohagen)
Tu 6-8 \$16

¹ Given at 1712 G Street, N.W., Room 506.

² Given at 1712 G Street, N.W., Room 515.

115. **Federal Purchasing Procedure** (Scammahorn) Tu 6-8 \$16
117. **Records Management Procedure** (Donaldson, Smith and Lecturers) Tu 6-8 \$16
118. **Practical English Usage** (White) Th 6-8 \$16
119. **Vocabulary Building** (Bryan) M 6-8 \$16
120. **Government Letter Writing** (Samson) F 6-8 \$16
341. **Systematic Coordination of Management Directives** (Yocum) Th 6-8 \$16
325. **Secretarial Practices** (Stephens) Th 6-8 \$16
89. **Review of Gregg Shorthand** (Evans) Tu-F 6-7:30 \$24
129. **Beginning Gregg** (Bolton) M-Tu-Th 6:30-7:30 \$24
130. **Intermediate Gregg** (Richter) M-Th 6-7:30 \$24
230. **Gregg, 70 to 100 Words** (Coffman) Tu 6-8 \$16
231. **Gregg, 100 to 130 Words** (Toll) W 6-8 \$16
335. **Reporting—Gregg, 140 to 200 Words** (Foote) M-Th 6:30-8:30 \$32
338. **Shorthand in Spanish** (Krissillas) Th 6-8 \$16

PHYSICAL SCIENCES

147. **General (Inorganic) Chemistry** (Carter) F 6-8 \$16
248. **Organic Chemistry** (Bowen) Th 6-8 \$16
349. **Physical Chemistry** (Hamer) Tu 6-8 \$16
522. **Physiological Chemistry** (Johnston) W 6-8 \$18
532. **Geochemistry** (Chambliss) W 6-8 \$18
762. **Electrochemistry** (Hamer) Th 6-8 \$18
455. **Geomorphology of the US** (Meyerhoff) Th 6-9 \$24
156. **Soil Conservation** (Steele) Th 6-8 \$16
157. **Soil Fertility** (Ableiter) Tu 6-9 \$24
452. **Principles of Physical Metallurgy** (Loring) W 6-8 \$16
527. **Experimental Techniques in Physical Metallurgy**¹ (Loring) Th (hours to be arranged) \$18
162. **Principles of Meteorology** (Johnson) Tu 6-9 \$24
533. **Hydrology**² (Linsley) Th 6-9 \$27
536. **Physical and Synoptic Meteorology** (Shands) W 6-9 \$27
153. **Introductory College Physics**³ (Kilgore) M-Th 6:30-9:00 \$32 and \$3 laboratory fee
700. **Advanced Optics**¹ (Kiess) M-W 5:10-6:30 Special fee of \$20 for the year

PUBLIC ADMINISTRATION

699. **Lecture Series: What We Learned in Public Administration During the War** (Thurston) Tu (time to be announced) \$9 for credit students; \$3 general lecture admission for the series
344. **Introduction to Public Administration** (Russell) Th 6-9 \$24
626. **Federal Administrative Management** (Becknell) W 6-8 \$18
627. **Reporting to Top Management** (Burton) Tu 6-8 \$18
710. **Seminar in Public Relationships in Government Administration** (Webster and Specialists) Th 6-8 \$18
624. **Organizational and Procedural Analysis** (Stone, Loftus) F 6:15-8:15 \$18
519. **Work Measurement and Performance Standards** (McKillopp and Shaw) Tu 6-8 \$18
525. **Financial Organization and Procedures of the Federal Government** (Tiller) Tu 6-8 \$18
635. **Agency Budgetary and Financial Administration: Budget Formulation** (Manvel, Jump) Th 6-8 \$18

¹ Given at the Naval Research Laboratory.

² Given at the Bureau of Standards.

³ Given at Wilson Teachers College.

561. **Public Personnel Administration** (Stahl) Tu 6-8 \$18
627. **Tests and Measurements** (Richardson) Tu 6-8 \$18
530. **Selection and Placement** (McLean) Th 6:30-8:30 \$18
640. **Veterans Legislation and Administration** (Petrie and Specialists) Tu 6-8 \$18
559. **Position Classification** (Hill and Laxton) M 6-8 \$18
643. **Advanced Position Classification** (Buckley) M 6-8 \$18
844. **Counseling Interview Workshop** (Barron) W 6-8 \$18
433. **Accident Prevention in the Federal Government** (Wetzel and Specialists) Tu 6-8 \$16
633. **Employee Relations and Employee Services** (Kraus) F 6:30-8:30 \$18
658. **Law of Federal Personnel Administration** (Koebel, Tremain) Th 6-8 \$18
842. **Personnel Division Management** (Couch) M 6-8 \$18
717. **Administrative Law and Procedure** (Flavin) W 6-8 \$18
637. **Management of Governmental Purchasing** (Scam-mahorn) Th 6-8 \$18
- 352^a. **Principles of Accounting—First Half** \$24
Section I (Rowe) M 6-9 W 6-7
Section II (Brownold) Tu 6-7 Th 6-9
- 352^b. **Principles of Accounting—Second Half** (Dye) Tu 6-9 Th 6-7 \$24
- 353^a. **Intermediate Accounting** (Hord) M 6-9 \$24
422. **Business Law** (Mostow) Tu 6-8 \$16
354. **Federal Government Accounting** (Mason) W 6-9 \$24
642. **Cost Accounting** (D'Allesandro) W 6-9 \$27
645. **Federal Tax Accounting** (Moyer) M 6-9 \$27
646. **Advanced Accounting Problems** (Acker) W 6-9 \$27

SOCIAL SCIENCES

200. **Introduction to Economics, Theory and Institu-tion** (Allin) Th 6-8 \$16
201. **Principles of Economics** (Thomsen) Tu 6-9 \$24
705. **History of Economic Thought** (Wasserman) W 7-10 \$27
709. **Structure of American Business** (Magdoff) F 6-8 \$18
711. **Imperfect Competition and Public Regulation** (Means) W 6-9 \$27
401. **Monetary and Employment Theories** (Hagen) Tu 6-8 \$16
704. **Economic Theory of International Trade** (Wad-leigh) M 6-8 \$18
300. **Marketing from Consumer's Point of View** (South-worth) Th 6-8 \$16
325. **Managing Personal Finances** (Larsen and Specialists) Th 6-8 \$16
422. **The Economics of Clothing and Textiles** (Brew) Th 6:30-8:30 \$16
403. **Labor and Social Legislation Abroad¹** (Williams and Specialists) M 6-8 \$16
203. **Economics of Marketing** (White) Th 6-9 \$24
405. **Marketing Consumer Goods** (Albright) F 6-8 \$16
204. **Current Policy Problems of American Agriculture** (Reid and Lecturers) M 6-7 \$8
407. **History of Agricultural Policy in U. S. since the Colonial Period** (Edwards) Tu 6-8 \$16
423. **Rural Social Policies in the U. S. and other Coun-tries²** (Cohen) Th 6-8 \$16
408. **Economics of Contemporary Policies** (Maddox) M 6-8 \$16

¹ Given at the Department of Labor.

² Given at the New Social Security Building.

716. Seminar in Economic and Social Implications of Current Agricultural Policies (Minor and Shields) M 7-9 \$18
719. Seminar in Policy Problems in Resource Utilization, Development and Conservation (Kotok, Johnson, Nichols) Tu 6-8 \$18
206. Federal Crop Insurance (Rowe, Colby) Th 6-7 \$8
207. Economics of Farm Production (Finner) M 6-9 \$24
409. Farm Management (Goodsell and Specialists) Tu 6-8 \$16
411. Agricultural Finance (Horton) W 6-9 \$24
416. Agricultural Cooperation (Davis, Hedges, Miller) Tu 6-9 \$24
427. International Political Psychology (Leites) M 6-9 \$24
724. Problems and Machinery of World Organization (Spitzer) W 6-8 \$18
727. Seminar in Problems of National Defense and of the Prevention of War (Possony) W 6-8 \$18
528. International Financial and Trade Policies (Zaglitz) Th 6-8 \$18
814. World Agriculture (Hainsworth, Purves, Whipple) Tu-Th 6-8 \$36
816. World Communication and Transport (Van Royen) Th 6-8 \$18
430. Contemporary Russia (Tereshtenko) Th 7-9 \$16
400. Psychology of Human Relations (Coffey) Th 6-8 \$16
501. Social Psychology (Schuler, Taylor) W 6-8 \$18
503. The Conditions of Personality Growth (Chapman) W 7-9 \$18
504. Personality Disorders (Chapman) M 7-9 \$18
739. Psychological Foundations of Economics (Katona) Th 6-8 \$18
215. General Sociology (Raper) Th 6-9 \$24
507. Farm Labor and Tenure Problems (Ducoff, Timmons) Tu 6-8 \$18
509. La America Latina y los Estados Unidos (Green) M 6-8 \$18
510. Population (Taeuber, Hauser and Taeuber) W 6-9 \$27
515. Rural Organization and Group Action (Ensminger) Tu 6-9 \$27
516. The Cultural Regions of the United States (Taylor, Raper) M 6-9 \$27
338. Regulation of Communication¹ (Emery) Th 6-8 \$16
605. Communications in Society (Smythe) Tu 6:30-8:30 \$18
337. Principles of Transportation (Snell) W 6-9 \$24
601. Traffic Management (Perrin) Th 6-9 \$27
651. Commercial Air Transportation (Robinson) Tu 6-9 \$27

TECHNOLOGY

475. Naval Architecture (Wright) Tu 6-8 \$16
476. Ship Construction (Wright) Th 6-8 \$16
401. Pumping for Drainage and Irrigation (Sutton) M 6-8 \$16
402. Principles of Refrigeration (Garver) Th 6-8 \$16
501. Transmission and Distribution Systems for Area Electrification (Eardley) Th 6-9 \$27
- 700^a. Analysis of Rigid Frames² (Amirikian) Tu-Th 7-9 \$27
702. Electric Utility Engineering³ (Jessel, Lynott) Tu 6-8 \$18
703. Water Power Engineering (Ross and Specialists) Tu-Th 6 8 \$27

¹ Given at the Federal Communications Commission Building.

² Given at the Bureau of Ships.

³ Given at the Federal Power Commission.

704. **Fundamentals of Gas Turbines and Jet Propulsion** (Shreeve) W 6-8 \$18
706. **Advanced Hydraulics** (Patterson) W 6:30-9:30 \$27
536. **Ground-Water Hydraulics** (Jacob) M 6-9 \$27
310. **Aerodynamics** (Koneczny) F 6-8 \$16
301. **Soil Mechanics** (Barber) F 6-9 \$24
540. **Theory of Elasticity** (Osgood) M-Th 7-8 \$18
542. **Mechanical Vibrations** (Levy) Tu 6-8 \$18
715. **Engineering Administration of Government Contracts**¹ (Helfrich) Tu-Th 6-7:30 \$27
550. **Contracts and Specifications**¹ (Smith and Specialists) W 6-9 \$27
554. **Patent Law for Executive and Scientific Personnel** (Kramer) Th 6-8 \$18
- 210^a. **Elementary Surveying** (Whitaker) M-W 6-8 \$28
- 211^a. **Advanced Surveying**² (Rappleye) M 6-8 (field work all day Saturday, every fourth Saturday) \$28
- 212^a. **Elementary Aerial Photogrammetry**³ (Higginson) Tu-Th 7-9 \$28
- 213^a. **Advanced Aerial Photogrammetry**² (Tewinkel) W 6-9 F 6-8 \$28
- 214^a. **Cartography** (Everett) Tu 6-8 \$16
321. **Pencil Sketching and Freehand Drawing** (Cadmus) M-W 6-8 \$24
322. **Art Appreciation**⁴ (Rowan) Tu 6-8 \$16
323. **Drawing for Portraiture and Illustration**⁴ (Lazari) M-W 6-8 \$24
320. **Water Color Painting**⁵ (Lyons) M-W 6-8 \$24
- 331^a. **Home Decoration** (Garrels) W 6-7 \$8
332. **Advanced Home Decoration** (Garrels) W 7-8 \$8
327. **Domestic Architecture**⁴ (Powers) F 6-8 \$16
505. **Functional House Planning**⁶ (Sater, Dodge) Th 6-9 \$18
315. **Theory of Modern Architecture**⁴ (Yerkes and Specialists) M 6-8 \$16
316. **Landscape Development of the Small Property**⁴ (Hagemann) W 6-8 \$16
- 324^a. **Basic Mechanical Drawing**⁴ (Wiemer) Tu-F 6-8 \$24
- 325^a. **Architectural Drafting**⁴ (Wiemer) Tu-F 6-8 \$24
- 325^b. **Architectural Drafting**⁴ (Wiemer) M-Th 6-8 \$24
326. **Engineering and Machine Drafting**⁴ (Conway) M-Th 6-8 \$24
28. **Blue-print Reading**⁴ (Conway) W 6-9 \$16
188. **Glass Blowing**⁷ (Clark) M-W 6-7:30 \$24
192. **Basic Photography** (Hanson) M 6-8 \$16
197. **Chemistry of Photography** (Faust) W 6-8 \$16
193. **Applied Photography** \$16 and \$2 laboratory fee
Section I (Purdy) M 6-8
Section II (Purdy) W 6-8
507. **Theory of Color Photography** (Lefebvre and Special Lecturers) Tu 7-9 \$18
196. **Applied Color Photography** (Purdy) Th 6-9 \$24 and \$5 laboratory fee
150. **Fibers of Industrial Importance** (Berkeley, Hardy and Specialists) Tu 6-8 \$16
350. **Textile Testing**⁸ (Schiefer) Tu 7-9 \$16
450. **Survey of Recent Technical Developments in Textiles** (Appel and Specialists) Tu 6-8 \$16
707. **Ethics for Engineers**⁴ (Sette) W 7-8 \$9
708. **History of Engineering**⁴ (Sette) M 6-8 W 6-7 \$27

¹ Given at the Treasury Procurement Building.

² Given at the Department of Commerce.

³ Given at the Department of Commerce or Clarendon, Va., Old Dominion Bank Building.

⁴ Given at Tempo 2, 19th and D Streets, N.W.

⁵ Given at Wilson Teachers College.

⁶ Given at the Agricultural Research Center, Beltsville.

⁷ Given at the Smithsonian Institution.

⁸ Given at the Bureau of Standards.